

AMENDMENTS TO THE SPECIFICATION

Please insert the paper copy of the sequence listing, submitted herewith, into the specification.

Please replace Table 3 (page 28) with the following:

Table 3

The substrate specificity of MetAP-*TG in *Escherichia coli*

| Substrate ^a | Solubility | Catalytic activity (%) |
|--|------------|------------------------|
| M [↓] QDWL (SEQ ID NO:10)-Onc | - | 91 |
| M [↓] QDWL (SEQ ID NO:10)-Onc ^b | - | 80 |
| M [↓] QDWE (SEQ ID NO:11)-RC3 | - | 96 |
| M [↓] QDWD (SEQ ID NO:12)-RC6 | - | 82 |
| M [↓] QDWA (SEQ ID NO:13)-RC4 | - | 93 |
| M [↓] Q [↓] AWA (SEQ ID NO:14)-RC4 | - | 100(100) ^c |
| M [↓] A [↓] AWA (SEQ ID NO:15)-RC4 | - | 100(18) |
| M [↓] A [↓] PWA (SEQ ID NO:16)-RC4 | - | 79(63) |
| M [↓] Q [↓] NEW (SEQ ID NO:17)-RC2 | - | 80(56) |
| M [↓] Q [↓] NWA (SEQ ID NO:18)-RCL1 | - | 96(62) |
| M [↓] QDWA (SEQ ID NO:19)-RCL1 | - | 99 |
| M [↓] L [↓] AGA (SEQ ID NO:20)-CA150 | + | 100(71) |
| M [↓] QDIL (SEQ ID NO:21)-GST | + | 87 |
| M [↓] QDIL (SEQ ID NO:21)-GST ^b | + | 71 |
| M [↓] QDIL (SEQ ID NO:21)-GST | - | 85 |
| M [↓] QDIL (SEQ ID NO:21)-GST ^b | - | 70 |

Please replace Table 4 (page 31) with the following:

Table 4
***In vitro* catalytic activity of engineered MetAPs toward synthetic oligopeptides**

| Substrate | Specific activity (unit/mg) ^a | | | | |
|-------------------------------|--|---------------|---------------|---------------|---------------|
| | MetAP- YMQ(wt) | MetAP- *GG | MetAP- *TT | MetAP- *TG | MetAP- GTG |
| MADY (SEQ ID NO:7) | 138±8 | 0.51±0.01 | 0.38±0.03 | 72±10 | 1.68±0.51 |
| MADYLT (SEQ ID NO:8) | 138±6 | 0.29±0.01 | 0.12±0.01 | 116±4 | 2.50±0.42 |
| MQDYLT (SEQ ID NO:9) | 0.43±0.01 | 0.29±0.02 | 0.13±0.01 | 0.42±0.02 | 0.23±0.01 |
| MADWLTFQKKHI (SEQ ID NO:5) | 85±13 | 3.28±0.04 | 1.00±0.08 | 73±15 | 9.80±0.26 |
| MQDWLTFQKKHI (SEQ ID NO:6) | 0.62±0.08 | 0.50±0.02 | 0.25±0.01 | 0.59±0.07 | 4.24±0.14 |